

208

Ch.

343 Market St.

Paper March
3^d 1828

Dear Sir,

This train comes on to night at 7 o'clock.

Very attend for me

Yours

Wm
Dr. R.
Hendry.



An
Inaugural Dissertation
on
Phthisis Pulmonalis.

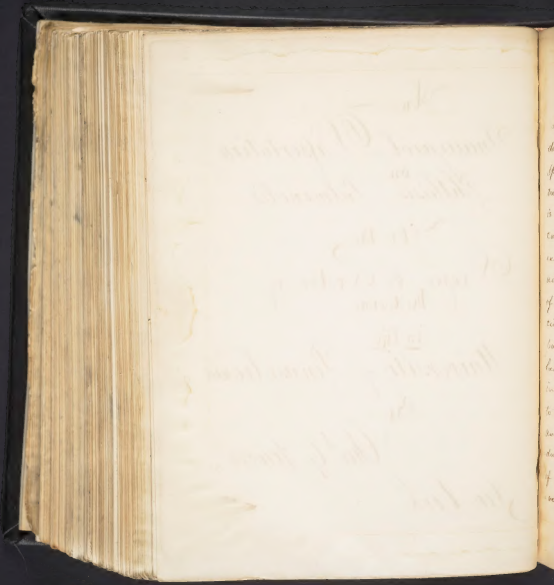
For the Jan 5. 1828
Degree of Doctor of
Medicine.

in the
University of Pennsylvania

By

Chas^s G. Fowler,

New York



March 1828

1

Consumption

The scourge of the civilized world - carrying
desolation into the families of thousands -
sparring neither youth nor comeliness - ~~depriving~~
nor fruit. In the catalogue of diseases no case
is involved in more obscurity; & there is no
case in which the powers of our science are
exercised with less certainty or with less
advantage. It would appear that the want
of success in this disease is owing to several
circumstances - 1st. That a vast variety of
pulmonary affections are embraced under one
head, and the same practice is applied
indiscriminately, consequently empirically,
to all the diversities of the complaint. This
arrangement & practice must necessarily pro-
duce mischief in this, as in every other case
of disease similarly arranged. 2nd. The im-
portant difficulties are of a very formidable nature.

Memorandum

Received of the Honble the Secretary of the Treasury
the sum of \$1000.00 for the purchase of the
land of the late John Smith of the County of
Albany State of New York
This receipt is given in full for the sum of
one thousand dollars and no more
Witness my hand and seal this 1st day of
January 1850
J. Smith
Secretary of the Treasury

2
"An ulcer in the lungs, which constitutes an"
"doubtedly the worst case of pulmonary consump-"
"tion," is necessarily very unmanageable in the
cure, from the loose and parenchymatous struc-
ture of the lungs. 3^d, This difficulty is augmen-
ted by the continual movement of the lungs
in respiration. The real reason of this difficul-
ty (says Dr. Parr) appears now probably as-
certained, and with Dr. Cullen we attribute
it to the suppuration of stromous glands,
which heal with peculiar obstinacy under
much more favourable circumstances.

It was a common observation of the Ancients
that acute diseases are from Heaven; chronic
from ourselves. This observation appears, in
the main correct, especially in the disease
under consideration. Phthisis is not heard of
among savage nations. To the North American
Indians it is entirely unknown. It was scarcely
known among the first settlers of the

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United States, who, from the nature of their occupations (clearing & subduing the soil,) necessarily led a life subject to innumerable hardships, by which their constitutions were strengthened, and their systems rendered less liable to disease; and from the condition of the country subsisted on a simple fare, healthy, in proportion as it was simple. Dr. Arbuthnot observes that in his time (1732) pulmonary affections constituted about one tenth of the bills of mortality about, and in London. At present, in all England the proportion is much greater, & shows a truly surprising increase, viz. as one fifth; and amounts annually in Great Britain alone, says Dr. Young (an eminent English Physician) to 55,000. deaths. According to the same author one fourth part of the inhabitants of all Europe are swept away by consumption. In the United States the proportion of deaths by consumption to the whole number of deaths, in

the principal cities according to a series of
Statistical tables, is nearly as follows. In Boston
as 1 in 5— in New York, 1 in 6— in Philadelphia,
1 in 7— and in Baltimore 1 in 6. The question
has been asked with astonishment "Has this
been the effect of Civilization?" The remark of
Dr. Johnson will (in part at least) answer the
question. To die, (says the Dr.) is the fate of man,
but to die with a lingering anguish is general-
ly his own folly.

The general prevalence & almost certain
fatality of Consumption demand for it a full
share of attention from Physicians, as philan-
thropists to alleviate suffering, and as men of
science to investigate minutely its interesting
pathology; "It being a febrile disease of a peculiar
nature located in a cellular structure, but that
structure previously diseased." The word *Phtisis*
signifies a consuming or wasting; applied to an
affection of the lungs we it denotes, according



to the most approved authorities, an ulcerated condition of those organs; but one kind, we are told, may run its course without organic disease of the lungs.

Portal made 14 species of *Phthisis* - Morton sixteen - Sauvages twenty; chronic catarrh, pleurisy, bronchitis, laryngitis, were included; Bayle makes six species, viz. tubercular, granular, melanosis, ulcerous, calculous, & cancerous; these all appear but as modifications of tubercles; out of nine hundred cases related by Bayle, six hundred & twenty four were tubercular, one hundred & eighty three granular, seventy two melanosis, fourteen ulcerous, four calculous, three cancerous; this division is of little practical importance, as they are according to Bayle distinguished by examinations post mortem, not by symptoms.

It is impossible to embrace all its varieties under one head, and any practitioner



called on to include him in the definition
would find himself embarrassed, if not
entirely incompetent to the task.

Phthisis Pulmonalis

That peculiar habit of body, termed Scrofu-
lous, is peculiarly obnoxious to this disease,
and is characterised by a delicate organization
of blood-vessels. "It exhibits, therefore, in all
its stages a strong disposition to hemorrhage"
This disposition manifests itself more partic-
ularly at, or about the age of puberty in
producing tubercular consumption, the
peculiar feature of which is its connexion
with tubercles of the lungs. The lungs are
peculiarly liable to disease at the period of
puberty, as at that age all the parts being
fully developed, the last efforts of growth



are directed to the thoracic organs, which have an undue supply of stimuli, & are sick. Slightly excited become inflamed, which is the more violent as the bony parietes ... yield to their enlargement.

Dr. Abercrombie does not suppose that the existence of a scrofulous diathesis necessarily gives to ulceration an unhealthy character, as scrofulous glands may be caltivated, & the wound healed favourably. whereas had it been allowed to advance to suppuration the ulcer would have been most unhealthy. Blisters & issues, the Dr. says, in a scrofulous habit do not necessarily produce scrofulous sores, and that we may observe in the same person, at the same time scrofulous ulceration in one part of the body, & in another the most healthy suppuration. He, therefore argues for the cause of unhealthy ulceration.



certain changes that have taken place in the structure of the parts affected.

Dr. Parr considers tubercles as conglomerate glands enlarged in consequence of that state of the constitution which constitutes scrofula; and that this (scrofula) arises from a want of irritability in the circulating, particularly the lymphatic circulating system, & hence an inability to propel ^{their} contents.

Dr. Armstrong, as the result of his observations, is of opinion, that true tubercular consumption only occurs in habits of the Humorous temperament, & that it yet remains to be proved whether tubercles ever are formed in the lungs without an hereditary pre disposition. W. H. supposes the seat of scrofula to depend on irritability of the capillaries of the lungs, and his irritability being more abundant in an organ from its construction than in



another, & partly on the morbid impressions
being directed chiefly to those organs. Thus in
one subject the glands of the skin will be
attacked; in another those of the mesentery;
and in a third the lungs; and further
that a pre-disposition to genuine *Stilthisis*
consists chiefly in an unusual irritability
of the capillary arteries in the cellular
connecting membranes of the lungs, and
whenever this pre-disposition exists, any
cause irritating or stimulating the lungs
may lead to the formation of tubercles,
and where this pre-disposition is absent
it is probable that no such cause can ever
exist, much less produce the disease in
question. Dr. A. remarks that the tuber-
cles themselves are probably formed by
exudations from the minute vessels in
the connecting cellular tissue of the lungs,
that these exudations become particularly



organised, yet may be considered acting
as calcareous bodies from the obstruction
they offer to the pulmonary circulation,
and the local irritation they produce.
From examinations post mortem of the
bodies of young children and those of
adults where no external signs of pectoral
disease
had previously existed (Dr. A.) was led to
believe that tubercles might sometimes be
congenital.

Lloyd, in his treatise on scrofula, relates
two cases to shew that Phthisis is hereditary,
and proves that tubercles may be congenital;
the examinations were made on the fetus
of women who had died of Phthisis. Of
the 2 cases reported each had their lungs
studded with tubercles some of which
had suppurated, and destroyed portions
of the lungs. The bodies in other respects
free from disease.



Dr. Rush does not consider a scrofulous diathesis the pre-disposing cause in the United States; but that tubercles are the effect of a general debility communicated to the bronchial vessels, which causes them to secrete a ~~profuse~~ superfluous quantity of mucus into the substance of the lungs, which gives rise to the tumours called tubercles.

In Mexico scrofula is unknown, where as Phthisis is very common. This might appear to sustain the opinion advanced by Dr. Rush. From the observations of Dr. Armstrong it appears that he considers the scrofulous diathesis as much concerned in the diseases of the lungs, as in the scrofula itself. According to Stahl tubercles are formed in the lungs of all sizes from that of a mustard seed to the bigness of horse-beans, and



are generally met with in considerable numbers. On cutting into them they appear of a white, smooth, cartilaginous nature. In the smallest no cavity or opening exists, but in such as are further advanced minute apertures like pin-holes are discoverable; the tubercles which are still larger have one or more cavities containing a fluid like pus, which being removed small openings are perceptible at the bottom, from which on pressure between the fingers more purulent matter may be forced out. The larger tubercles on being opened are found to be true capsules or reservoirs into which enters a branch of the bronchia, affording passage for the matter expectorated.

From the dissections of Bayle (a French author) it appears they are occasioned by a disposition of matter from the capillaries of the lungs, not depending on inflammation or irritation & that



times they are clasy, sometimes clutky. it is on
earthy & even ofens: thus formed the tubercles
may remain for a great length of time even for
many years, indolent & inactive with little or no
inconvenience to the patient. at length, however,
excited by the ordinary causes of inflammation
Tubercle becomes inflammatory. At first the tumor
is nearly white, opaque and more succulent
in the surrounding membrane. The tubercles them-
selves increase of size and opaque or greyish, first
in the center & extending to the circumference
after a short time a red, its cavity is formed
in the center of the tubercles in which is found
a small quantity of illacutable pus. This cavity
gradually increases, or several unite in one, &
an abscess is formed denominated an abscess
tubercular: this bursting, then rolled open permits
discharges its contents into the bronchia there-
upon it is cicatrized. The cicatrized are mixed
as a smooth, white membrane easily blown.



and this Boyle supposes may be the case. At
other times says Boyle, the vesicles are in a
thin, contagious substance; these are however
evanescent tubercles. After the rupture of the
vessels the circulation rapidly advances the
tubercles away the vessel, under the surface of the lungs
are destroyed & involved in one mass of
tissue. At some times supposes that only one
tubercle at a time does on suppuration; under
such circumstances the progress of the disease
is extremely lingering & protracted; now & then
there occurs a temporary remission or
suspension of the disease encourages the hopes
of an immediate recovery.

Boyle says, that the tubercles at times are so
numerous & small as to make the inner surface
of the lungs look & feel as though they had been
scorped in fire sand & that death sometimes
occurs before suppuration, or absorption. Patients
may continue in this situation for years; one



if the tubercles become inflamed: a venous is
formed: it bursts: the contents are discharged: it
heals; & at some time the patient may appear
well & remain so until exposed to some of the
causing causes: another tubercle is more than
likely to appear: a third & thus it goes on
in degrees of the first and a number of
tubercles becoming affected at the same time
the patient becomes exhausted & dies.

According to Linnæus bands of the natural tissue
of the lungs, condensed & changed with the
tuberculous excretions, form the alveolar form
in their course, & a numerous resembling the
alveolar structure of the testicles, smaller in the
middle than at the extremities; there it would
appear according to Linnæus have been mis-
taken by Boyle for blood vessels. From the
examinations that have been made of these
arteries it appears that in blood vessels
but that the smaller ones are arteries.



and the larger degree they contain the more
are either purulent or sanguineous, filled with a
fibrous substance which prevents hemorrhage,
though the greater part of the disease is dissipated.

Bayle & Larousse do not consider tubercles
one of the true causes of inflammation &
inflammation is not excited in any organ with these
recipes but a disposition towards the capillaries of
a granular nature.

The French Pathologists divide inflammation
into three species. 1st that which arises in
these parts as those vessels which carry red
blood; second, in those which carry lymph
as vessels of the skin, of a gland &c. &c.
3rd the inflammation of the serosa of these.
viz. those vessels that carry a white or colour-
less fluid, that Simpson & Traversan allege to
be the cause of the formation of tubercles & that
these are not always dependent on it but that it
is not always dependent on it but that it is



11
Euthesia is at times essentially different from
the conditions to which we designate as the
subventive Euthesia.

Causes. Among the most common exciting
causes of Euthesia are tobacco & ill-tempered pas-
sive influence, repeated eruptions & the
suppression of sexual and menstrual or
menstrual menses, excess of every kind, debilitating
excitations which continue very continued and
long, & excessive attention to study, regulating proper
exercise, and to remove the appearance of
Euthesia. sudden changes of appearance, damp beds,
exposure when suited to cold, & playing on wind
instruments, ^{or music} as recurrent causes of this complaint,
leading desire to improve the figure &
under the constant wear pale & interesting is
a wound as a cause by Lessault; to which
is added eating paper & drink for the
same purpose. Various other causes are
also giving rise to Euthesia. Certain causes ^{are engaged in}



as those cullens, miners, workmen in certain part
also are said to be particularly liable to it as well as
quindens also millers. This is attributed to the
inhalation of stone, metal & flour being compressed.
This does not appear to be correct, as it is the
force of the lungs to expel & throw-out of the
air matter in the process of which nothing but
air is received. The nature of their occupations
would not give it known satisfactorily. The
case of stone cullens in the most part are
in a compressed & laborious condition during
their most active exertions & thereby sufficient
is admitted for the production of tubercles
at least in pre-disposed subjects. The situation
of miners induces debility & may thus pre-
dispose to an attack. When that has existed
it will not observed the stand the stone
against the edge of the upper thus exposing
the right of the lung & the left the
invariably takes would be surprised that



There is a cough that has obtained the popular name of 'the miller's cough'. Would it not under such circumstances be far more surprising to find lungs free from disease?

That we are in. miners &c. to look for the deleterious effects of their occupations some where else than to the small particles taken into the lungs - to the poisonous exhalations respired, is apparent, as a small quantity of sand previous to such exposure effectually guards them from injury.

Mr. Paris states that the miners in Cornwall seldom expose to the arsenical vapours lab. Sweet oil, the efficacy of which is so satisfactorily ascertained but the proprietors allow annually a sum sufficient to procure it for the use of the workmen. If the small particles entered the trachea & the bronchus then bad effects I cannot see how a little sweet-oil in the stomach could



counteract their deleterious effects.

Symptoms. The diagnosis of Phtisis at an early stage is of the greatest moment, and though the symptoms in general are sufficiently uniform to admit of details, yet the anomalous symptoms & counteracting facts render it somewhat embarrassing to the practitioner. Boerhaave used to tell his pupils that a burning & tingling in the palms of the hands especially towards evening, burning eyes after sleep, increased evening discharge, the skin dry, brown, particularly the feet, in the morning, was never deceived him. Dr. Rush remarks that he has known a nose-sneep to be the first symptom of an approaching Phtisis.

In young persons "if very fair hair white teeth, clear skins, large veins blue eyes, delicate blood complexion great sensibility weak voice, contracted chest, & high shoulders" the



slightest determination to the lungs, should
excite alarm & claim particular attention.
Among the first symptoms of the formation
of tubercles is a slight, dry, tickling cough,
as though a little mucus or phlegm hung
at or about the epiglottis; though the cough
at this period is most frequently dry, there
is sometimes an expectoration of glairy
mucus. The patient at times complains of
slight pain in some part of the chest or
side, which, at first wandering, soon be-
comes permanent. He complains of fatigue
from the least exertion; the respiration is
hurried from the same cause with a
sense of constriction or oppression at
the chest; the body becomes gradually leaner,
and great languor, with indolence, dejection
of spirits & loss of appetite prevails.
The pulse is often in the commencement
natural, or small, soft, & sometimes



accelerated; the symptoms above enumerated continuing for any length of time, it becomes full, hard & frequent. If examined at this period it will be found accelerated and above eighty; towards night & after meals especially of animal food it will be from nearly one hundred in a minute; the patient will at this stage experience an inability to make a full inspiration, & each attempt will cause a catch or cough; there will at the same time be a disposition to sigh, as the disease advances there will be an inability to lie on one side or the other without exciting a fit of coughing, or the difficulty of breathing ^{being} much increased. Dr. Parr asserts that if the patient can lie on the side in which the pain is experienced, the disease is not Phthisis.

This state of things continuing for a considerable length of time during which the patient is



accelerated; the system is general affected by the
least change in the atmosphere, and very sub-
ject to take cold from the least exposure; the
cough becomes gradually more troublesome
and is attended with expectoration of pus,
which is more pure towards morning;
this period Haemoptysis is liable to occur;
which, says Gregory, may be said to charac-
terise the first stage of Phthisis Pulmonalis
with as much certainty as purulent ex-
pectoration does the second.

This has been considered the true character
the symptom of Phthisis; when viewed with
a microscope it exhibits, we are told, by Sir
Howard Paine the appearance of granules.
Mr. Jones's notes remarks that mucus exam-
ined after the same manner appears to
be made up of flakes. Darwin directs the
following as an accurate test for pus
to solve the expectorated matter in two or



acid & in caustic alkaline lixivium: then add
pure water to both solutions & if there is
a fine precipitation in each it is a certain
sign of the presence of pus, but if there
is no precipitation in either it is a certain
test that the substance is entirely mucous.
The oxyurias hydragryvi he found to con-
tinue mucous but not pus.

Dr. Young of London in a treatise on
consumption mentions a very simple cri-
terion of pus. If a small portion of the
substance to be examined be placed
between two pieces of plate glass, by
holding it thus placed near the eye,
and looking through it at a distant
candle with a dark object behind it,
we shall observe even in the day-time
a bright corona of colours of which the
candle is the centre, a red one being
surrounded by a green & this again



in another of red: if the mixture
simply mucus there may be a red one
but none of the green will appear.
As symptomatic of Phthisis & indicative of
great danger we have hectic fever; "a
fever of local irritation in a weakened
state of the constitution." Its appearance
is very gradual, but not regular. There are
generally two daily paroxysms, a morning
& evening paroxysm. The latter more severe,
and followed by colligative sweats; these
are at times local. After the evening par-
oxysm the sweating continues for the most
part during the night. The patient may
not sleep after the paroxysm, but
when he awakes finds himself bathed in
respiration, & exceedingly exhausted.
In the latter stage there is a tendency
to metastasis to the bowels; this taking place
there is an abatement of cough, fever &c.



and the night sweats are life profuse. (4)
dyspnoea is much to be dreaded, as it generally
closes the tragic scene, rendered doubly
tragic as it so frequently falls on the most
beautiful, amiable & best of created beings.

Diagnosis. Chronic inflammation of
the bronchiae may be distinguished from
Phthisis by the wheezing at the same time
that the patient will be able to take a
full inspiration without experiencing
uneasiness; the lips have not that bright
colour manifested in Phthisis, but are
of a leaden or blue cast. The colour
of the face is more permanent. In
chronic catarrh the cough is deep, the
expectoration easy, from the commence-
ment & to the last is copiously blended
with mucus; there is also some degree
of inflammation at the upper part of
the Pharynx of a pale red colour &



the patient can lie with more ease on either side than in Plethipis.

An ulcer of the trachea may supervene a chronic inflammation of that organ. This most usually occurs in the upper part; when it occurs the pain is generally referred to a particular spot on the trachea. It was by attending to this peculiar symptom, we are informed by Morgagni, that when a young man he detected an ulcer in the trachea of a person of distinction & this he dates as the commencement of his celebrity, as from this circumstance he immediately obtained an extensive reputation.

Chronic inflammation of the Pleura is distinguished by pain or a dragging sensation in the side being confined to a particular spot. This is often so obscure as only to be experienced during a paroxysm of coughing; the expectoration is usually



and consists of mucus. In peripneumony the sputa are of a light colour, somewhat yellow or green of great liquidity & mixed with bubbles of air. Dr. Rush remarks that Plethitis & Peripneumony differ only as the protracted shadow of the evening does from that of the noon-day sun.

It is very evident that diseases very different have been mistaken for Plethitis, and that an accurate diagnosis is as yet a desideratum.

The only disease with which Plethitic fever may be confounded is intermittent fever. It is of practical importance that the diagnosis should be accurate as at times hectic fever is the first symptom that is particularly noticed, and would be greatly aggravated if treated for intermittent. The paroxysms of hectic are seldom regular, occurring at any hour of the day or night.



The fever is not always preceded by a sense of chilliness, nor does a fever always follow a chill. In the middle of a fever the chills will sometimes return, which Drs. Hoberden states as a certain symptom of hectic. Galen says the pathognomonic sign is "the fever being increased after eating and drinking"; perspiration after the fever does not relieve the patient, & when the sweat is over the fever may return; besides this the sleep is not refreshing.

Hectic is always attended with a circumscript blush on the cheek entirely peculiar which Byron very aptly illustrates & forcibly contrasts with the rosace of health,

"Heaven yet shed "

"A sun-set charm around her & illumine "

"With hectic light the Heopernus of the dead"

"If her consuming cheek the autumnal leaf like "

In hectic the appetite & powers of digestion



remain unimpaired: the bowels are regular unless the disease has considerably advanced. They then become costive: but towards the close the case is exactly reversed. The tongue is clean, preternaturally florid & polished; intermittently it is foul & of a white or fuliginous hue. During a paroxysm of the ague the urine is clear: the reverse occurs in hectic fever. During the apyrexia the cases are reversed.

That the functions of the brain should be so little affected in Hectic is its most striking peculiarity. Even during the exacerbations head-ache does not always occur & there is seldom any at other times. The decay affects the frame alone; it appears powerless on the mind which in some cases shines with a brilliancy & strength that appear too much for the frail vessel in which it is enshrined.



The mental faculties in general
are pained throughout the disease, with
one exception. In the prospect of recovery
the judgement is nearly always erroneous.
The question has before been asked whence
spring the never-dying hopes of him whose
infirmity is already flourishing. In answer
we are compelled to imitate Dr Parr &
exclaim 'it is truly singular!' Well might
Campbell say of Hope

"She lights her torch at Nature's funeral pile."

Prognosis. This is necessarily unfavour-
able. Laennec remarks that tubercles tend
essentially to increase in size & become
soft, & that a removal of the exciting
cause has been mistaken for a cure.

Laennec considers that tubercles resist
necessarily over their course & that a cure
can only be effected when this has been
accomplished. The cure is then performed.



ic remarks, by the formation of a fistula
or more permanently by cicatrization.
Nearly all writers agree that it is in the
very commencement alone that we can
reasonably expect a cure. On the curability
of Phthisis Dr Thomas remarks the unkind-
ly nature & recalcitrance of these ulcers, their
number, their inaccessibility to any direct
application, the impossibility of excluding
the atmospheric air from them, or obviat-
ing its influence & lastly of preserving
the morbid lungs in a state of quiescence
constitute a chain of circumstances through
which the arm of science, however ably
directed, will never break. Dr. Parr
asserts that in six distinct, well-defined
instances he has seen recoveries perfected
by nature. Dr. Good has seen one instance
of recovery when reduced to such a
condition as to expectorate a pint & an half



of pus, or purulent mucus daily, attended
by exhausting night-sweats & anasarca.

Whether this cure was to be attributed to
the means employed or to the efforts of
Nature, Dr. G. does not decide.

Treatment. For practical purposes,
Dr. Thomas observes, it may be sufficient to
distinguish carefully between pulmonary con-
sumption, which occurs in persons of the stron-
ger habitude, & that which attacks
constitutions of a different description from
accidental causes, such as exposure to cold,
or as the consequence of other diseases.

Among the hemorrhages is the order in
which it is arranged by Cullen.

Horsack, however, prefers as the best
distinction that can be made, to divide
the disease into two stages, the acute and
the chronic, & accordingly has thought
proper to give it a place among the



phlegmasia. Dr. W. thinks there has not been sufficient importance attached to the division of Phthisis into acute & chronic, and as the leading indication is plainly to arrest the progress of inflammation in the lobes, so as to prevent suppuration & its consequences, that the direct antiphlogistic treatment has not been so active in the acute stage as the emergency demanded; whilst treatment is pushed with such decided efficacy in other inflammatory affections of the breast.

Dr. Prætor recites the case of a young lady who was attacked with all the symptoms of this disease, viz. pain in the chest, frequent cough, the expectoration of matter manifestly purulent, the regularly formed hectic, returning at mid day & at night, the circumscribed



phlegm of the chest &c. Having lost her sister
with consumption she indulged herself in
hope of relief. This case was treated as
one of pure pneumonia, and the event
justified the views taken of the disease,
for by the remedies prescribed the lady
was restored to perfect health.

Dr. Rush recommends the same ac-
tive treatment & mentions several
cases in which it was attended with
the most decided success. Dr. Doan
recommended venesection & that in the
beginning a moderate quantity of blood
should be taken away each day for
eight or ten days in succession, and
after this every two or three days for
a much longer time, so that in
some cases he bled the patient about
fifty times. Venesection is indicated
whether we consider Phthisis a local



disease or a disease of general debility:
In the case is inflammatory in the
commencement, the indication is to
~~induce~~ induce natural excitement & for the
attainment of this it is necessary to
withdraw a part of its stimulus. It is
evident that we are not to pay attention
so much to the quantity of blood
taken as to the state of the system
from which it is taken: if this is
too weak & inevitable to bear the ex-
citement produced by its natural
stimulus the blood. The indication is
plain: withdraw a part of that
stimulus & thus accommodate the stim-
ulus to the state of the system.

When hæmoptoe occurs, the pulse is
& contracted with difficulty of breathing,
a fixed pain in the side, skin hot & flushed,
the cough dry & hard, or hæmoptoe.



symptoms intense. Trepanation will not
only be proper but cups may be applied
at the same time with advantage. This
atten is beneficial not only by abstract-
ing blood from the circulation but at the
same time a powerful counter irri-
tant. In using the lancet we should
bear in mind the importance of early
inducing inflammation on one hand
& on the other the extreme debility
that is an attendant of the case,
& the tendency of the remedy to
increase the exhaustion of the vital
energy. If from the circumstances we
do not wish to bleed dry cupping may
be resorted to with signal advantage.
About forty are to be applied to the
whole chest & this repeated every third
or fourth day.

Blisters. The efficacy of counter irritant.



in this complaint has long been known &
acknowledged. This may be accomplished
either by a blister, seton or issues. The
ancients were in the practice of applying
very extensive issues. These to be useful
should be extensive & frequently renewed
or permanent. They will not merely as-
suage, blisters are at present decided
as confessed. Dr. Hornstoun recom-
mends the application of small blisters,
by this practice a more constant
irritation is kept up. He recommends
that the first dressing be with cam-
mon tinct & that on the second, the
whole of the blistered surface be torn
off, & the denuded surface dressed
with the ordinary blistering ointment
until a considerable scough is formed.
The sore is then allowed to heal & the
process repeated as long as the disease.



may remain unsecured. He
tells that he has seen this treatment
succeed when every other expedient
had failed. When the blisters, says Dr. Parr,
are designed to relieve the violence & harshness of
the cough they should be applied to the
neck, as a prophylactic blister should be
applied as soon as any pain is experienced,
which may lead us to suspect a local affection
of the larynx; they should be applied
immediately to the part affected; if the pain
changes its situation it should be conspicuously
attended with blisters; many cases of croup recover
through the beneficial influence of this treat-
ment, & medicine.

The remedies considered next in importance
are emetics. They do good by reducing the
binding or reducing the vascular action hence
diminishing transudation and by their extension
they restore in part the equilibrium.



circulation. Emetics relieve dyspepsia & abate the
ough facilitate expectoration & remove cutaneous
constriction. Professor Chapman advises that
emetics to be useful should be repeated three
or more mornings or two several weeks
in succession & when this cannot be ha-
v will not be submitted to, their occasional
use must be recommended. According to
Dr Reid emetics should be exhibited morn-
ing & evening so as to excite vomiting once
or twice each time; by this mode of treatment
we in part obtain the beneficial effects of
the ~~emetic~~ ^{emetic}. Dr Reid remarks that the
sympathy existing between the lungs and
stomach is peculiar & should the former
be diseased it will be rendered still more
noxious to the latter or if the latter be
diseased such by treatment & gentle emetics
is above directed consists not alone in re-
moving the acid or irritating contents of



The stomach just the saline matters & is
incommodities induced the usage at each time.
new stomachs contracted are enabled to
receive a great deal of humors or frequent
influx may in recent thus relieving the
labor of the stomach & giving rest
to the same when says Dr. Reid is the im-
portant indication thus obtained. Dr. Ross
objects to the entire abstinence use of diet,
advocated by Dr. Reid at the same time
who need occasionally be masters of their
own & decided efficacy.

Faciliators have in general professed epicu-
The dry vomit recommended by Dr. Maygall
consists of equal parts of blue vitriol & ^{cast. pome} ~~epine~~
has been greatly extolled, giving at the same
time as much as the stomach will bear;
Dr. Griffiths Myrrh & steel mixture, Dr. Thomas
recommends this practice, he informs us for
epine; having adopted it in many cases



of incipient Phthisis with decided advantage.
Iridiolated Sassafras was once proposed as an
emetic. It is said to be little else than an
excess of the Harshness. It was a practice
said Dr. Ross, among the Indians to induce
vomiting by suddenly introducing cold
into the Lungs.

In Sweden as the Medicines have been
given very much diluted is the eighth
of tartar emetic is a pint of
water for the common drink. We are told
by Dr. Astruc that this mode of treatment
is more successful than any other but
in exhibiting emetic tartar after this manner
we command not the good effects of digitalis.
As I told you there is no danger to the patient
in experiencing its various qualities.

During the Phlogon was once proposed as
the best emetic might be at first and then
afford the means or opportunity to cure.



By the close observation of that accurate and
minute examiner Professor Hygie the irrita-
tion of the urica has been found to be the
exciting cause of a long continued cough,
with all the other symptoms of *Phthisis pul-
monalis*.

In a part of the same plan of treatment
it is customary to recur to other articles
directed to reduce the force of the cir-
culation to attain the same practitioners
resort to purgatives & though some-
times very successful the least excess in
their operation must be carefully watched.
"In every form of pulmonary complaint
it is unproductive of mischief" the sul-
phate of soda is useful, says Dr. Parr, in every
stage of the disease, particularly when in
small doses of ten or fifteen grains two or
three times each day. Dr. Rush limits his
usefulness to the inflammatory stage.



As more common & probably safer means
to meet this indication, & by Antimonials
alone or in minute doses combined with
silver. Mercury has been used in this
disease. Dr. Rush thought it was beneficial
most even to irritation. Mercury doubtless
has been of benefit in chronic pulmonary
affections. Dr. Wm. Richardson that he has
often found by abstraction of the liver to pro-
vide Phthisis & where the disease is due to
vice from hard study, a sedentary life &
excess of passions he thinks the foundation
is laid. The liver. Phthisis is generally
considered at its origin, if so, as
in most vehicles in phthisis are exhibited
with the happiest effect. The same should
obtain where Phthisis is a venereal affection
of the lungs; but here we get the case, the
venereal disease. The same happens in disor-
ders of the liver & thus complicated we could



mercury would be of advantage, if not dispensable. This complication of Phthisis may in part account for the injurious effects of a Southern residence to some consumptive patients, whilst it is so very beneficial to others.

As a remedy in Phthisis; digitalis has been variously estimated; by Doctors Boissac, Leube, Truder, & Davignon, & it has been considered more by in the light of a specific; others of respectability are not convinced who consider it of the first importance; at present it is left highly estimated & we are informed by Professor Chapman that it is only admissible in the first stage of Phthisis: this seems to be the opinion of late writers as to its powers. Kinkadee (better known by his treatise on gout) gives, in a work of his, fourteen cases of the disease chiefly in the incipient stage, in about one half of which this medicine was decidedly advantageous. In the suppuration or ulceration



1
Mag. is accomplished with one cure. McLean
on Foxglove says, Those who expect wonders
from it or that it will in general cure
consumption will be disappointed. The disease
not arrested, abscesses, hectic fever & its con-
comitants so much to be dreaded take place.

Professor Chapman now considers the case
entirely beyond the control & power of medical
science & that it must inevitably prove fatal.
Though the case is completely beyond the power
of medicine to cure it is not out of the
reach of palliatives and it is always right
and necessary that these should be exhibited.
The indications now are to remove the
hectic fever - allow the night sweats & check
diuresis all which tend to debilitate & ex-
haust the patient in a very rapid manner.
To remove the hectic, various remedies have
been proposed, but, as the affections just re-
ferred are symptomatic, all that can be done



is to palliate. For, near, Dr. Robinson of
London recommends cinchona as the best
palliative in hectic. He mentions that it
always the colligative. Secrets "that it checks
the discharges so apt to supervene. This practice
is said to have been introduced from Africa;
although following the exhibition of cinchona
is said to be a favourable sign. The wild
berry has been; also salivary recommended
in Paracelsus about the year 1545 in all
the Paracelsian affections & by Elmer in 1696
continually in hectic; with many other
articles have been used, preparing more or
less of a palliative property. The sulphuric
acid is given in the form of oleum of bitriol;
this may be combined with the Prussian
blue or the vegetable yellow or stramonium.
Chalcidians have been much used in others
not other than palliatives they are of little
effect. Dr. Hunter recommended it of a



of ether & tar. To stay the rough & assist expe-
 loration the vibration of warm liniments, poured
 of turpentine, slight sweats are checked by stuporifics
 in powder & rubbing the surface of the body
 upon retiring with some stimulating ointment.

The next remedy, or Lianian is an irrita-
 tion, or suppuratory; a decoction of the wild-
 rose leaves with a pepper, & vigorous friction
 of the back will stimulate the destroying system
 as the stage depends on, but at the same time
 it is not exhausting the powers of life. The
 rays checked with powder, & talc.

In the last stage the rays, which throughout
 it have been, remains very avoided; to relieve
 the most of the dangerous retentions are
 a use; quinine & stramonium the purpose
 remedy as it may be kept constantly in
 the mouth by sticking to against the tongue.
 The remedies of Nitric acid. Quinine & stramonium
 are very useful more especially if



there is much dyspnoea. After all, to relieve
the patient, our chief reliance is on opium,
which has been justly styled the "magnum
Dei donum." It has been objected to opium
that it checks expectoration; that, when given
in the evening, it checks expectoration during
the greater part of the night, is allowed; but
respectable authority is not wanting which as-
serts that it promotes, & renders more free
and easy, expectoration the following morning.
The sedative property of opium, which is in-
dubitable & gives rest to the weakened lungs,
is that if the expectoration is not unre-
sistibly & free the lungs are in a condition
better calculated to bear it, which, in a
practical view amounts to the same. The
expectoratives are attributed to opium independent
of its anodyne effects, which are of great ben-
efit in the advanced stage of the disease.

Professor J. Lewis related to me the case of



married Lady Alford: my son, Mr. Henry W. Alford, whose cough was very harassing, with prominent expectoration: night sweats; supposes loss of the menses; low strength &c. did not waste any foot in time, had all the appearances of confirmed Pleurisy, or 18 months: but at an increased from the use of quinine camphor &c. &c. low diet.

Stomachitis is occurring in the advanced stage
of this disease is to be checked by a strict
abstinence to the antiphlogistic plan of
treatment; cold applications should be resorted
to the temples, also to the genital organs
which are very susceptible of their influence;
advantage will be derived from an
acid pediculation. The face should be
carefully administered; if the rigour of the
circulation is increased, its use ought
to be preceded by venesection otherwise it
will prove detrimental. The dose, & time



in three yrs. to be repeated every three or
four hours. Sir. Rush directs the use of
common salt in the dose of a tea or table
spoon full repeated every fifteen or twenty
minutes & that this succeeds equally well in
a moribund condition in the young or old
with a weak or active pulse. We are
informed by Professor Chapman that there
is not the least doubt of the efficacy of
salt. Dr. Baillie, when referring on the
subject, used in order to arrest the atten-
tion to stop short & mention to his pre-
pils that 20 or 25 grs of Spas Turpentine
in a glass of water according to the age of
the patient was a valuable remedy in
hemiplegia & never to be neglected.

In purgation the diet should
be light best should be enjoined is
occasionally cooling laxatives administered.
Such may be effected by the use of blisters.



It has been strenuously advised that our prescription of medicines as much as possible should be external; one gr of the acetate of lead applied to a denuded surface is said to act as powerfully, and effectually in allaying the cough & pain as when given internally & that to check a diarrhoea, it should always be used in the form of an enema. It is necessary that the physiological state of the stomach should be scrupulously watched. Dr. Mudge, labourer under Phtisis 28 years & in the end, was improved by Dr. Jackson, died of gastritis. Gastritis is said to be the immediate cause of death in nearly the one half of Phtisical patients.

The desire to evade this terrible malady is too well known to need more than its mention. But to the question, 'Whether shall I fly, or which is the most appropriate'



situation" here can give a direct & positive answer. Dr. Rush recommends travelling on horseback, or, should it agree better, in an open carriage from one extremity of the United States to the other avoiding the sea-coast, spending their winters at the South & their summers at the North & especially to avoid the night air. Dr. Keil observes that bodies animated, by diaphanous, or evolutions of whatever kind draw more than full ones; hence the reason why those who suffer from chronic disease experience in the evenings more uneasiness or pain than during the day.

While government decided, whether it should be high or low, always dry or moist, there is a diversity of sentiment. High situations were preferred until the time of Dr. Bond, when sent his patients to the low parts of New Jersey or Delaware.



where the atmosphere was very moist, & stated that his patients, if not cured, were much benefited, especially if they had an attack of the ague & fever. The country is said to be more subject to Malaria than Great Britain; there is a people, however, called the ferns of one county (Lincolnshire) in which the inhabitants are not liable to this disease whilst in another part of the same country, called the Wolds, the inhabitants are as subject to consumption as in any other part of G-Britain. The inhabitants of the ferns are subject to the ague & fever of the Wolds to Malaria & if not cured by an exchange of situations are at least greatly benefited; the Wolds are exposed to the cold from, blowing South & North West winds, while the ferns are subject to the influence of harsh miasma.



Thence it appears that the Halls are
subject to a pneumonic principle;
(if the term may be allowed) it is just
as philosophical to attribute Phthisis, in
fact at least, to the influence of the
North West wind as to the rise on
the noxious qualities of Mephitic Miasma.
We see the Hollanders, enveloped in per-
petual clouds the most robust of his spec-
ies, not exposed to the North West winds,
not liable to Phthisis pulmonalis. As a
confirmation of the same point, we may see
the Indian of our Western forest who
passes all his life in places where the
sun scarcely ever reaches, consequently
surrounded with continual moisture,
though unexposed to winds, the deadly
influence of the Simoom is attributed to
it, finally, the noxious influence of the
East wind has been proverbial from



line immemorial; & the wind most
deadly in its influence, being so from
its dryness. we should anterior infer
as the North West wind is more arid
than the East, that it would be more
elotious. Asthmatic patients, instinc-
tively avoiding high & dry situations.
"some nature -- nature's due".

After all Physicians generally agree
that when Phthisis has advanced to
the last stage the patient had better
remain at home, or at least in his
own country & that the little advan-
tage obtained by any residence what-
ever will poorly compensate for the
loss of the society of his friends & their
attentions of which he will be in
so great & constant need. If he remain
at home he may pass the winter in a regula-
ted temperature; the clothing should be regu-



ted according to the weather & the habits of the patient. as it is not so much from the lightness as from the change of drafts that we suffer. When an Indian was asked how, so nearly naked, he could bear the severe winters of Canada, he replied 'that he was all face.' It has been recommended to patients labouring under Pthisis to wear next to the skin oiled silk so as to prevent the too speedy evaporation of the matter of perspiration, & thereby in a measure prevent those debilitating sweats to which they are so liable. In winter the patient sleeps between blankets & in summer on a mat or rug; the former is much less fresh cold in night than the latter is said frequently altogether to check night sweats. To prevent taking cold at every exposure the patient may wear a large strong undy pitch plaster on his breast, which, by the slight irritation produced, prevents the effects of cold, so much to be dreaded in



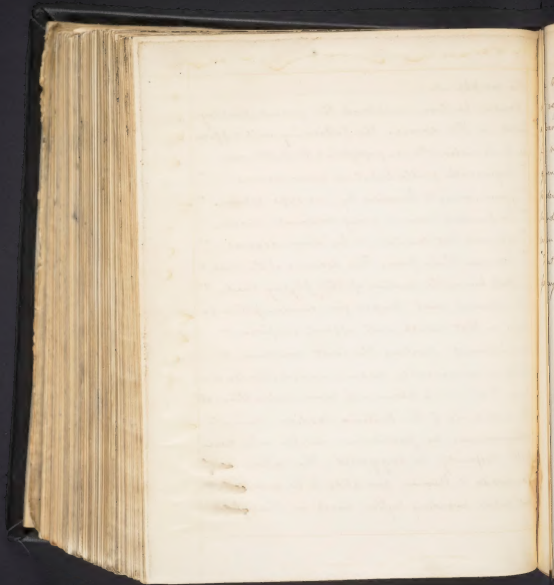
this complaint.

Exercise has been considered the general prophylactic in this disease. The following will suffice as to its rules, both in a prophylactic & therapeutic view.

- "Begin with gentle toil, & as your nerves "
- "grow firm, to hardier by just steps aspire. "
- "The prudent, even in every moderate walk, "
- "At first but saunter, & by slow degrees "
- "Increase their pace. This doctrine of the wise "
- "Well knows the master of the flying steed. "

The aliment most proper for consumptive patients is that which will afford sufficient nourishment, creating the least excitement.

Milk is universally recommended. Dr. Buchan says that milk alone is of more value than all the medicines of the *Materia Medica*. Owing to idiosyncrasies no particular dietetic rules can with propriety be suggested. The extremes of Sangrado & Brown are alike to be avoided, & hot, while avoiding scylla, break on Charybdis.



The meals of whatever kind should be taken at regular intervals so that the digestive apparatus may have rest & sufficient time for recruiting its energies. If any rule were given to a Phthisical patient it should be, 'Be moderate in all things' & constantly to bear in mind that prudent reply of Lord Bacon's when urged to drink to the King's health, viz. 'That he would drink for his own health & pray for that of the King.'

